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SASVIEW – DATA ANALYSIS FOR SMALL ANGLE SCATTERING

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SasView[1,2] is a data analysis package for Small Angle Scattering, developed by an international collaboration of facilities and universities. It primarily provides model fitting to 1D and 2D scattering patterns, including resolution smearing of the model. Fitting of polarised neutron scattering data, and data from oriented systems, is supported. There are also modules for performing inversion of scattering data to $P(r)$, calculating the scattering invariant, and calculating scattering length densities.

This year saw the release of version 5.0 of the software as the culmination of effort from the SINE2020 project [3]. This new release has a fully re-written GUI, streamlined user experience and updates to the implementation of scattering models, including the introduction of the beta approximation for interacting systems.

This talk will present the capabilities of the latest version, and discuss how the collaboration and work is managed to deliver software that meets the needs of both small angle scattering users and facilities.

References

- [1] Doucet et al. (2019), SasView version 5.0, DOI: 10.5281/zenodo.3011184
- [2] <http://www.sasview.org>
- [3] <https://www.sine2020.eu>

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